

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Rec'd PCT/PTO 30 DEC 2004
PCT/FR2003/002120



10/518532

Applicant's or agent's file reference B14095.3DB	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/FR2003/002120	International filing date (day/month/year) 08 juillet 2003 (08.07.2003)	Priority date (day/month/year) 11 juillet 2002 (11.07.2002)
International Patent Classification (IPC) or national classification and IPC B23K 26/04		
Applicant COMMISSARIAT A L'ENERGIE ATOMIQUE		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 21 janvier 2004 (21.01.2004)	Date of completion of this report 28 October 2004 (28.10.2004)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FR2003/002120

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
 pages 1-15, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☒ the claims:
 pages 1-10, as originally filed
 pages _____, as amended (together with any statement under Article 19
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☒ the drawings:
 pages 1/5-5/5, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/02120

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

2. Citations and explanations

Reference is made to the following document:

D1: WO 01/07195 A (HEIDELBERG INSTR MIKROTECHNIK; KAPLAN ROLAND (DE); VOGLER SVEN (DE)) 1 February 2001 (2001-02-01)

A system (claim 1) and a method (claim 10) according to the preambles of claims 1 and 10, respectively, for machining workpieces using a laser beam.

At the time of filing of the present application, no available prior art document disclosed two cameras, namely a wide-angle camera and a narrow-angle camera, as described in the characterising parts of claims 1 and 10, respectively. The narrow-angle camera is useful not only for enhancing machining fineness and precision in combination with a wide-angle camera, but also for carrying out marking "on the fly" by simultaneously performing welding and marking.

Claims 2 to 9 relate to variations of the inventive concept expressed in claim 1 and thus also appear to comply with the requirements of PCT Article 33(1) in the light of the prior art.

TRAITE DE COOPERATION EN MATIERE DE BREVETS

PCT

10/518532

REC'D 28 OCT 2004

RAPPORT D'EXAMEN PRELIMINAIRE INTERNATIONAL



(article 36 et règle 70 du PCT)

WIPO PCT

Référence du dossier du déposant ou du mandataire	POUR SUITE A DONNER voir la notification de transmission du rapport d'examen préliminaire international (formulaire PCT/PEA/416)	
Demande internationale No. PCT/FR 03/02120	Date du dépôt international (jour/mois/année) 08.07.2003	Date de priorité (jour/mois/année) 11.07.2002
Classification internationale des brevets (CIB) ou à la fois classification nationale et CIB B23K26/04		
Déposant COMMISSARIAT A L'ENERGIE ATOMIQUE		

1. Le présent rapport d'examen préliminaire international, établi par l'administration chargée de l'examen préliminaire international, est transmis au déposant conformément à l'article 36.
2. Ce RAPPORT comprend 4 feuilles, y compris la présente feuille de couverture.
- ☐ Il est accompagné d'ANNEXES, c'est-à-dire de feuilles de la description, des revendications ou des dessins qui ont été modifiées et qui servent de base au présent rapport ou de feuilles contenant des rectifications faites auprès de l'administration chargée de l'examen préliminaire international (voir la règle 70.16 et l'instruction 607 des Instructions administratives du PCT).
- Ces annexes comprennent feuilles.

3. Le présent rapport contient des indications et les pages correspondantes relatives aux points suivants :
- I ☒ Base de l'opinion
 - II ☐ Priorité
 - III ☐ Absence de formulation d'opinion quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle
 - IV ☐ Absence d'unité de l'invention
 - V ☒ Déclaration motivée selon la règle 66.2(a)(ii) quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle; citations et explications à l'appui de cette déclaration
 - VI ☐ Certains documents cités
 - VII ☐ Irrégularités dans la demande internationale
 - VIII ☐ Observations relatives à la demande internationale

Date de présentation de la demande d'examen préliminaire internationale 21.01.2004	Date d'achèvement du présent rapport 28.10.2004
Nom et adresse postale de l'administration chargée de l'examen préliminaire international  Office européen des brevets - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tél. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Fonctionnaire autorisé Aran, D N° de téléphone +31 70 340-2331 

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**RAPPORT D'EXAMEN
PRÉLIMINAIRE INTERNATIONAL**

Demande internationale n°

PCT/FR 03/02120

5. ☐ Le présent rapport a été formulé abstraction faite (de certaines) des modifications, qui ont été considérées comme allant au-delà de l'exposé de l'invention tel qu'il a été déposé, comme il est indiqué ci-après (règle 70.2(c)) :

(Toute feuille de remplacement comportant des modifications de cette nature doit être indiquée au point 1 et annexée au présent rapport.)

6. Observations complémentaires, le cas échéant :

V. Déclaration motivée selon l'article 35(2) quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle; citations et explications à l'appui de cette déclaration

- | | | | |
|--|------|----------------|------|
| 1. Déclaration | | | |
| Nouveauté | Oui: | Revendications | 1-10 |
| | Non: | Revendications | |
| Activité inventive | Oui: | Revendications | 1-10 |
| | Non: | Revendications | |
| Possibilité d'application industrielle | Oui: | Revendications | 1-10 |
| | Non: | Revendications | |

2. Citations et explications

voir feuille séparée

Concernant le point V

Déclaration motivée quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle; citations et explications à l'appui de cette déclaration

Il est fait référence au document suivant :

D1: WO 01/07195 A (HEIDELBERG INSTR MIKROTECHNIK ;KAPLAN ROLAND (DE); VOGLER SVEN (DE) 1 février 2001 (2001-02-01)

Un système (rev. 1) resp. un procédé (rev. 10), d'après les préambules des revendications 1 resp. 10, d'usinage d'objets à l'aide d'un faisceau laser.

Au moment du dépôt de la présente demande, aucun document disponible de l'art antérieur ne dévoilait deux caméras, l'une dite de grand champ et l'autre de petit champ telles que décrites dans les parties caractérisantes des revendications 1 resp. 10 . La caméra de petit champ tout en permettant d'améliorer la finesse et la précision d'usinage en combinaison avec une caméra de grand champ permet d'effectuer un marquage "à la volée", de réaliser simultanément des opérations de soudage et de marquage.

Les revendications 2-9 concernent des modifications du concept inventif exprimé dans la revendication 1 et devraient satisfaire aux critères tels qu'exposés dans l'article 33(1) PCT vis-à-vis de l'art antérieur disponible.